

AMENDMENTS TO THE CLAIMS:

Please replace the claims with the claims provided in the listing below wherein status, amendments, additions and cancellations are indicated.

1. (Currently Amended) A liquid mixer comprising pumps for pressure feeding liquids flowing through at least two supply lines to a mixing line at an arbitrary ratio, each supply line comprising a diaphragm, selected from the group consisting of a needle valve, a fixed orifice, and a regulating valve, for adjusting the flow rate of the liquids provided on the upstream side from a point where said at least two supply lines are merged to the mixing line and a pressure reducing valve comprising an automatic valve and being positioned further upstream of said diaphragm and in series therewith, and a back pressure valve comprising an automatic valve, whereby fluctuations of the pressure in the liquids on the downstream side of the back pressure valve [[are]] being absorbed in said mixing line.

2. (Previously Presented) The liquid mixer of claim 1, further comprising a flow meter, wherein the back pressure valve and a flow meter are arranged in series in the mixing line.

3-7. (Canceled)

8. (New) A liquid mixer for pressure feeding liquids with pumps, comprising:

at least two separate supply lines through which respective liquids flow at an arbitrary ratio, the supply lines merging at a merge point into a mixing line, each supply line having

a diaphragm for adjusting the flow rate of the respective fluid and located upstream of the merge point, the diaphragm being selected from the group consisting of needle valves, fixed orifices, and regulating valves, a pressure reducing valve further upstream of the diaphragm and in series therewith, and

a pump positioned upstream of the pressure reducing valve and in series therewith for pumping the respective liquid;

a back pressure valve located immediately downstream of the merge point, the back pressure valve operating to absorb fluctuations in the liquid pressure in the mixing line downstream of the back pressure valve; and

a flow meter positioned downstream of the back pressure valve and in series therewith,

whereby, in operation, the liquid pressures of the at least two supply lines on the upstream side of the merge point is maintained constant.

9. (New) The fluid mixer of claim 8, further comprising:

a needle valve positioned downstream of the flow meter for regulating the output of the fluid mixer.